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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/813,782	10/813,782 03/31/2004		Kiyoshi Mita	14225-049001 / F1040149US	5223	
26211	7590	07/18/2005		EXAM	EXAMINER	
FISH & RI		SON P.C. ER 52ND FLOOR	CHU, CHRIS C			
153 EAST 5			ART UNIT	PAPER NUMBER		
NEW YORI	K, NY 1	0022-4611		2815		
				DATE MAILED: 07/18/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/813,782	MITA, KIYOSHI				
Office Action Summary	Examiner	Art Unit				
	Chris C. Chu	2815				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 06 M	av 2005.					
·— · · · · · · · · · · · · · · · · · ·	action is non-final.					
•—						
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1 - 5 is/are pending in the application.						
4a) Of the above claim(s) <u>4 and 5</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 - 3</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
<ul> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li> </ul>						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(e)						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:						

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#### **DETAILED ACTION**

#### Response to Amendment

1. Applicant's amendment filed on May 6, 2005 has been received and entered in the case.

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 3 are rejected under 35 U.S.C. 102(b) as being anticipated by Ozawa (U. S. Pat. No. 5,471,366).

Regarding claim 1, Ozawa discloses in e.g., Fig. 7 a semiconductor device (80; column 7, line 46), comprising:

- a mounting substrate (31; see Fig. 3 and column 4, lines 55 58) having a step portion (between the element 40 and the edge of the element 41) in a periphery thereof;
- a conductive pattern (the pad on the element 41; see Fig. 7 and column 4, lines 61 64) formed on a surface of the mounting substrate (31) located inside the step portion (see e.g., Fig. 7);

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- a semiconductor element (81-2; column 7, line 47) fixed to the mounting substrate and electrically connected (by wire 32x; column 7, line 54) to the conductive pattern (the

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pad on the element 41); and

- sealing resin (34; column 7, lines 20 – 21) covering the surface of the mounting substrate and the step portion to seal the semiconductor element (see e.g., Fig. 7).

Regarding claim 2, Ozawa discloses in e.g., Fig. 7 the conductive pattern (the pad on the element 41) comprising a bonding pad electrically connected to the semiconductor element (81.2) through a fine metallic wire (32x) and a plating line (the conductive trace line that connects between the pads and the pad under the lead 37) extending from the bonding pad to the step portion. Furthermore, the term "plating" is a process designation, and would thus not carry patentable weight in this claim drawn to a product. See In re Thorp, 227 USPQ 964 (Fed. Cir. 1985).

Regarding claim 3, Ozawa discloses in e.g., Fig. 7 a plurality of the bonding pads (the pads on the element 41 that are connected to the wire 32x) being arranged so as to surround the semiconductor element (see Fig. 2), further comprising a wiring portion (the wiring that is connected to the element 37 and the pads) extending from each of the plurality of bonding pads under the semiconductor element (see e.g., Fig. 7).

## Response to Arguments

4. Applicant's arguments with respect to claims 1 - 3 have been considered but are moot in view of the new ground(s) of rejection.

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#### Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris C. Chu whose telephone number is 571-272-1724. The examiner can normally be reached on 11:30 - 8:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 517-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

Chris C. Chu Examiner Art Unit 2815

c.c.

Wednesday, July 13, 2005

866-217-9197 (toll-free).

TOM THOMAS SUPERVISORY PATENT EXAMINER